Maybe write a sentence

or two of introduction.

Definition 1. A rational number is a fraction \(\frac{a}{b} \). Note that b + 0!

Example 2. \(\frac{1}{2} \). It you need to write a sentence!

Example 3. A number that isn't rational is the number \(\pi = 3.14159 \).

We now prove that the rational numbers are indeed a field.

The one of Theorem 4. The set of rational numbers \(\Q \) is countable.

Proof. We can see this pretty easily by looking at the following diagram. That diagram shows us \(\frac{1}{2} \).

classmates is reading this, they might not know what countable means. Before the theorem, you could write a sentence explaining that.

FIGURE 1. We show the rationals by counting the black numbers in the order shown. The red numbers are the redundant ones.

you mean "count"?

that the positive rational numbers are countable. We can then count all the rational numbers by starting with zero, and then using this counting but overlaying the negative rationals. In other words, we enumerate the rationals

This is an abrupt ending.

You might include a last sentence of conclusion.

to they count

positive ones.