Inference at $*$ 2 1
 of proof for Lemma nth_tl_is_fseg:

1. T : Type
2. L_1 : T List
3. L_2 : T List
4. n : $\{0..(\|L_2\|+1)^-\}$
5. L_1 = nth_tl(n;L_2)

$\vdash L_2$ = (firstn(n;L_2) @ L_1)

```
  by ((((((Symmetry)
  CollapseTHEN (HypSubst (-1) 0))·)
  CollapseTHEN (
    (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·
    )
  CollapseTHEN (((BackThruLemma ‘append_firstn_lastn‘)
  CollapseTHEN (
    (Auto_aux (first_nat 1:n) ((first_nat 2:n),(first_nat 3:n)) (first_tok :t) inil_term)))·
    ))·

    .
```