```
tl_append_front  THM

⊢  ∀l,m:T*. ||l||>0 ⇒ tl((l @ m)) = (tl(l) @ m)  by UnivCD
|
1. T : Type
2. l : T*
3. m : T*
4. ||l||>0
⊢  tl((l @ m)) = (tl(l) @ m)  by ListInd 2
|
|\
| 3. m : T*
| ⊢  ||nil||>0 ⇒ tl((nil @ m)) = (tl(nil) @ m)  by Reduce 0
|
.\
. 4. u : T
. 5. v : T*
. 6. ||v||>0 ⇒ tl((v @ m)) = (tl(v) @ m)
. ⊢  ||u.v||>0 ⇒ tl(((u.v) @ m)) = (tl((u.v)) @ m)  by Analyze 0
. |
. 7. ||u.v||>0
. ⊢  tl(((u.v) @ m)) = (tl((u.v)) @ m)
.   by RWH (AddrC [1] (RecUnfoldC ‘append‘)) 0 THEN Reduce 0
END
```